WIGS 2- AUGUST 22, 2022

1. **Recent Advances in Molecular Mechanisms of Cancer Immunotherapy**
   Gp Capt TVSVGK Tilak

Key Highlights and Findings:
This review delves into the latest developments in cancer immunotherapy, focusing on molecular mechanisms. It critically examines various immunotherapeutic approaches, including immune checkpoint inhibitors, therapeutic cancer vaccines, and genetic modifications of immune cells. The paper emphasizes how understanding these mechanisms has led to novel cancer treatments, offering insights into controlling immune checkpoints and enhancing antitumor immune responses.
Link: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10216302/

2. **The Role of Digital Health in Revolutionizing Healthcare Delivery in Conflict Zones**
   Shivam Singh

Key Highlights and Findings:
This study explores how digital health technologies are transforming healthcare delivery in conflict zones. It highlights improvements in access to care, emergency response capabilities, health information management, and mental health support. The paper underscores how digital advancements enable healthcare providers and aid organizations to overcome challenges and reach underserved populations in these regions.
Link: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10693218/

3. **The Role of Digital Technology in Curbing COVID-19**
   Harshit Prabhakar

Key Highlights and Findings:
This research paper summarizes the digital technologies employed during the COVID-19 pandemic to mitigate virus transmission. It evaluates the effectiveness of these applications and explores factors influencing their usability. The study provides a comprehensive overview of how digital tools have facilitated pandemic response efforts.
Link: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9320375/

4. **Smart Home Healthcare for Chronic Disease Management: A Scoping Review**
   Riddhish Bhatt

Key Highlights and Findings:
This scoping review examines the role of smart home healthcare applications in managing chronic diseases. It highlights how these applications monitor health and wellness, record

physical activity and rehabilitation, and improve overall quality of life. The paper also notes the need for further research into the efficacy of smart healthcare in chronic illness treatment.
Link: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10702417/

5. **A Wearable Biosensor for Continuous, Real-Time Monitoring of Sepsis Biomarkers in Critical Care**
   Vedant S Jha

Key Highlights and Findings:
This study introduces a novel wearable biosensor designed to continuously monitor key biomarkers indicative of sepsis in ICU patients. By providing real-time data, the device supports earlier detection and prompt intervention, potentially reducing sepsis-related mortality

Link: https://www.nature.com/articles/s41551-021-00765-3